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TCS 2764/65
M/EB 107/65
6 April 1965
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DECLASS REVIEW by NIMA/DOD

MEMORANDUM FOR: Chief, Manufacturing and Services Division, ORR
Chief, Ballistic Missiles and Space Division, OSI

25X1A ATTENTION: [REDACTED] Construction Branch
Technical Support Branch

THROUGH: Chief, Requirements Branch, Reconnaissance Group, OGS

FROM: Chief, Photographic Intelligence Division, CIA

SUBJECT: Mensural Data on Single Silo Control Bunkers and Interferometers at Selected ICBM Complexes, USSR

REFERENCE: (a) Requirement C-DI5-82,389
(b) CIA/PID Project 30454-5

1. This memorandum is in response to your requirement dated 19 March 1965, which requests mensural data on control bunkers and interferometers identified at single silo ICBM launch sites in the USSR.

2. A number of the specific measurements requested in your requirement cannot be derived from available photography. However, it has been determined that the probable control bunker at the Type III-C and Type III-D ICBM launch sites are of two distinctly different designs. The "L" interferometers appear identical at both type sites. Generalized sketches of four of the probable control bunkers, together with line drawings of Tyuratam Launch Complex "I", Imeni Gastello Launch Site D, Olovyanaya Launch Site D-7, and Drovyanaya Launch Site G-2, accompany this report as Enclosures 1-8.

3. At Type III-C sites, a single large excavation, about 250 feet long and at least 130 feet wide, is initially prepared for the probable control bunker. In this is emplaced one building which measures 110 by 60 feet. Near this building and within the excavation is the intersection of the legs of the "L"-shaped interferometer. Positioned at the apex of the "L" is a small structure probably rectangular in shape. The size of the excavation observed at the Type III-C sites is such that more than one building, 110 by 60 feet, could be accommodated although there has been no evidence of additional construction identified other than already mentioned. The depth of this excavation cannot be determined by photogrammetric techniques, but it is estimated to be on the order of 20 feet deep. The 110 by 60 feet building, upon completion, rises to near surface level, and is then earth covered. It is positioned 300 to 500 feet from the launch silo.

GROUP 1
Excluded from automatic
downgrading and
declassification

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4. At Type III-D Launch Sites a different technique is used for the construction of the Guidance/Control facilities. Two major excavations are made; one at the apex of the "L", and one for the control building. In addition a long shallow excavation is sometimes present in which a linear building measuring 100 by 20 feet is placed.

At both Olovyanaya D-7 and Drovyannaya G-2, the excavation for the probable control bunker is less than half as large as those at Imeni Gastello and Tyuratam Launch Complex I. The size of the building under construction at Olovyanaya D-7 cannot exceed 110 by 45 feet (the size of the excavation), and would logically be no larger than 75 by 45 feet, at which point the excavation slopes up from the flat base. On recent photography of Drovyannaya G-2, the probable control bunker appears to be about three-fourths complete, and measures 60 by 45 feet with two [redacted] appendages. The depth of the excavation appears similar to that at the Type III-C sites, and the building again rises near-to-surface level. The probable control bunker is positioned 400 to 500 feet from the launch silo.

5. No dissimilarities have been noted between the "L"-shaped interferometers at the Type III-C & III-D sites. It is believed that they are in fact identical with legs 1310 feet long (400 meters) each consisting of eight equal 165 foot (50 meters) segments.

At the apex of the "L" is a small structure, probably rectangular and measuring approximately 20 by 30 feet. At Tyuratam K-3 this small structure was completed and mounded prior to the start of the excavation for the probable control building.

6. No tunnels or conduit to the probable control bunker have been identified nor have any candidates for alternate control sites. Due to incomplete construction and/or limitations of the photography measurements could not be obtained for such items as the wall thickness of the probable control bunker, the depth and contour of the earth cover over it, the depth of the cable trenches forming the "L" or a new estimate of door thickness.

7. All measurements have been made by the CIA/PID project analyst. They should not be construed as being mensuration data compiled by the NPIC Technical Intelligence Division.

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8. The photo analyst on this project is [redacted] who may be contacted on extension 2078 should you have any further questions concerning this project.

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9. This project is considered to be complete.

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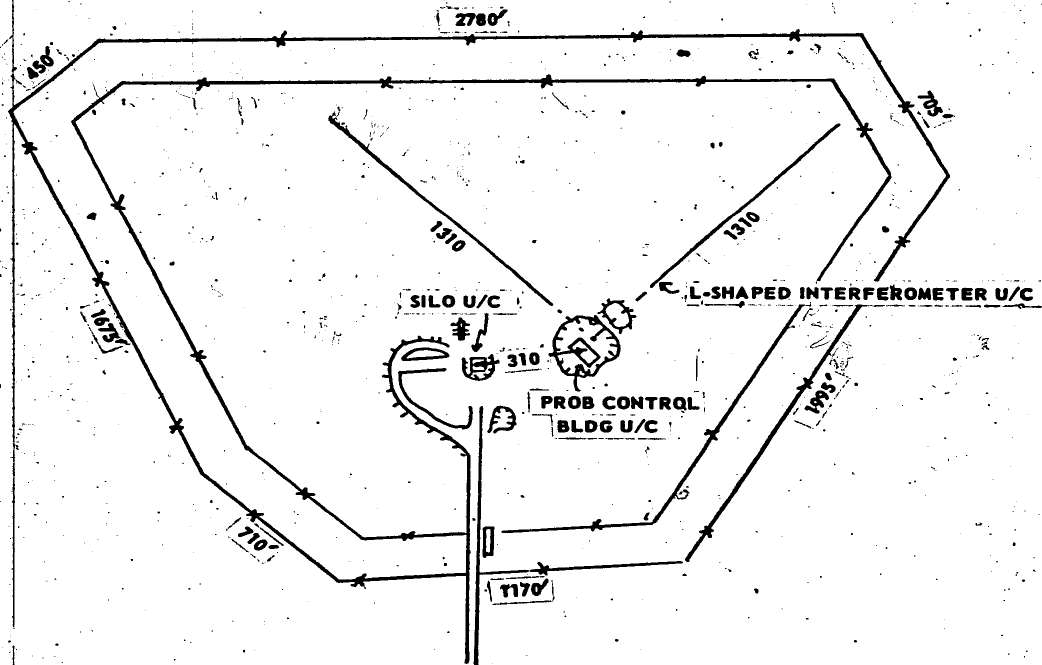
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CIA/PID/MEB-P-137/65
Attachment to:
TCS 2762/65

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ALL DIMENSIONS IN FEET.

LAUNCH COMPLEX I TTMTc

25X1D

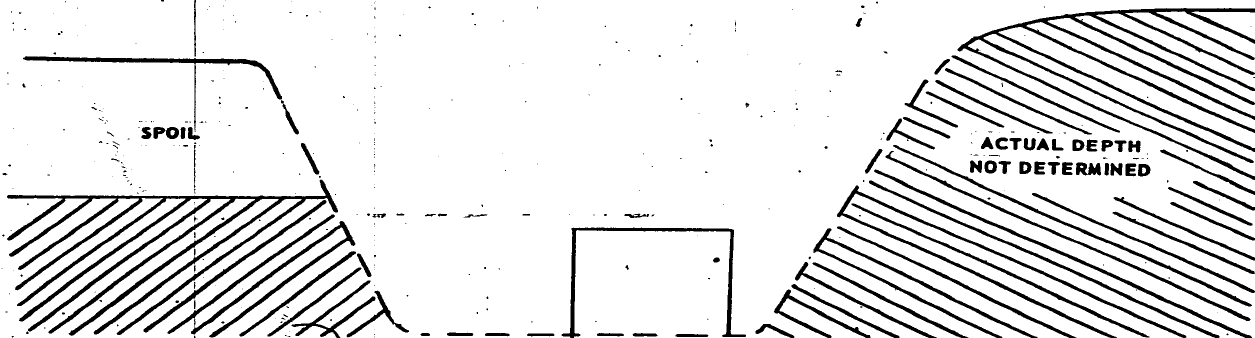
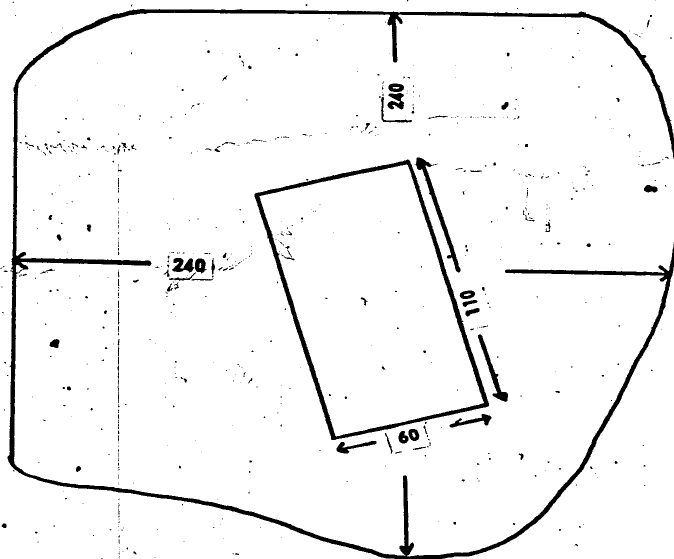
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ENCLOSURE 1

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CIA/PID/MEB-P-138/65
Attachment to:
TCS 2762/65



ALL DIMENSIONS IN FEET.

PROBABLE CONTROL BUNKER UNDER CONSTRUCTION

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LAUNCH COMPLEX I TTMTTC

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ENCLOSURE 2

S-16924

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